

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-2442-1

Client Project/Site: NPDES Permit MA0000833

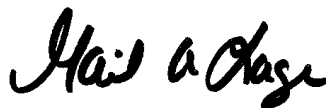
For:

Exxon Global Remed. Grp

52 Beacham Street

Everett, Massachusetts 02149

Attn: Mr. Ernest E Haynes



Authorized for release by:

7/26/2012 10:19:51 AM

Gail Lage

Senior Project Manager

gail.lage@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-2442-1	Outfall 01 A - TSS-1	Wastewater	07/18/12 19:15	07/20/12 08:30
490-2442-2	Outfall 01 A - TSS-2	Wastewater	07/18/12 19:15	07/20/12 08:30
490-2442-3	Outfall 01 A - TSS-3	Wastewater	07/18/12 19:15	07/20/12 08:30
490-2442-4	Outfall 01 A	Wastewater	07/18/12 19:15	07/20/12 08:30

Case Narrative

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Job ID: 490-2442-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-2442-1

Receipt

The samples were received on 7/20/2012 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

General Chemistry

Method(s) SM 2540D: The matrix duplicate %RPD for TSS associated with batch 7349 was outside the control limits due to non homogeneity of the sample.

Definitions/Glossary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A - TSS-1

Lab Sample ID: 490-2442-1

Date Collected: 07/18/12 19:15

Matrix: Wastewater

Date Received: 07/20/12 08:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	41.3		3.33	2.00	mg/L			07/21/12 08:58	1

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A - TSS-2

Lab Sample ID: 490-2442-2

Date Collected: 07/18/12 19:15

Matrix: Wastewater

Date Received: 07/20/12 08:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	44.0		4.00	2.40	mg/L			07/21/12 08:58	1

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A - TSS-3

Lab Sample ID: 490-2442-3

Date Collected: 07/18/12 19:15

Matrix: Wastewater

Date Received: 07/20/12 08:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	45.6		4.00	2.40	mg/L			07/21/12 08:58	1

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A

Date Collected: 07/18/12 19:15

Date Received: 07/20/12 08:30

Lab Sample ID: 490-2442-4

Matrix: Wastewater

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.40		4.00	1.40	mg/L		07/23/12 08:15	07/23/12 08:15	1

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-7520/1-A

Matrix: Water

Analysis Batch: 7522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.40		4.00	1.40	mg/L		07/23/12 08:15	07/23/12 08:15	1

Lab Sample ID: LCS 490-7520/2-A

Matrix: Water

Analysis Batch: 7522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	41.7	38.13		mg/L		91	78 - 114

Lab Sample ID: LCSD 490-7520/3-A

Matrix: Water

Analysis Batch: 7522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oil & Grease (HEM)	41.7	38.33		mg/L		92	78 - 114	1	18

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-7349/1

Matrix: Water

Analysis Batch: 7349

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.600		1.00	0.600	mg/L			07/21/12 08:58	1

Lab Sample ID: LCS 490-7349/2

Matrix: Water

Analysis Batch: 7349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	97.80		mg/L		98	90 - 110

Lab Sample ID: LCSD 490-7349/25

Matrix: Water

Analysis Batch: 7349

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Suspended Solids	100	104.1		mg/L		104	90 - 110	6	20

QC Association Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

General Chemistry

Analysis Batch: 7349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-2442-1	Outfall 01 A - TSS-1	Total/NA	Wastewater	SM 2540D	
490-2442-2	Outfall 01 A - TSS-2	Total/NA	Wastewater	SM 2540D	
490-2442-3	Outfall 01 A - TSS-3	Total/NA	Wastewater	SM 2540D	
LCS 490-7349/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 490-7349/25	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
MB 490-7349/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 7520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-2442-4	Outfall 01 A	Total/NA	Wastewater	1664A	
LCS 490-7520/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-7520/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-7520/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 7522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-2442-4	Outfall 01 A	Total/NA	Wastewater	1664A	7520
LCS 490-7520/2-A	Lab Control Sample	Total/NA	Water	1664A	7520
LCSD 490-7520/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	7520
MB 490-7520/1-A	Method Blank	Total/NA	Water	1664A	7520

Lab Chronicle

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Client Sample ID: Outfall 01 A - TSS-1

Date Collected: 07/18/12 19:15

Date Received: 07/20/12 08:30

Lab Sample ID: 490-2442-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	7349	07/21/12 08:58	BK	TAL NSH

Client Sample ID: Outfall 01 A - TSS-2

Date Collected: 07/18/12 19:15

Date Received: 07/20/12 08:30

Lab Sample ID: 490-2442-2

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	7349	07/21/12 08:58	BK	TAL NSH

Client Sample ID: Outfall 01 A - TSS-3

Date Collected: 07/18/12 19:15

Date Received: 07/20/12 08:30

Lab Sample ID: 490-2442-3

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	7349	07/21/12 08:58	BK	TAL NSH

Client Sample ID: Outfall 01 A

Date Collected: 07/18/12 19:15

Date Received: 07/20/12 08:30

Lab Sample ID: 490-2442-4

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1664A		1	7522	07/23/12 08:15	BD	TAL NSH
Total/NA	Prep	1664A			7520	07/23/12 08:15	BD	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-2442-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-12
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-12
New Hampshire	NELAC	1	2963	10-09-12
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-12
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-12
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-12
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-12
Wyoming (UST)	A2LA	8	453.07	12-31-13

COOLER RECEIPT



490-2442 Chain of

Cooler Received/Opened On 7/20/2012 @ 0830

1. Tracking # 9700 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) EF

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EF

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA



19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EF

I certify that I attached a label with the unique LIMS number to each container (initial) EF

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO..#

 	ExxonMobil Everett Terminal NPDES Permit Compliance & Sampling Procedure	Revision Number: 2
	NPDES Permit #MA0000833	Revision Date: 3-22-12
	Prepared by: EMPCo	Endorsed by: _____ Procedure Effective Date: 1-1-12

Loc: 490
2442

Appendix E

Required MLs for Samples from Outfalls O1A and O1C to Accompany Chain of Custody

Polycyclic Aromatic Hydrocarbons

Group I	Permit Required Minimum Level for Analysis, ug/L
Benzo(a)anthracene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Chrysene	<0.5
Dibenzo(a,h)anthracene	<0.10
Indeno(1,2,3-cd)pyrene	<0.10
Group II	Permit Required Minimum Level for Analysis, ug/L
Acenaphthene	<5.00
Acenaphthylene	<5.00
Anthracene	<2.0
Benzo(ghi)perylene	<0.2
Fluoranthene	<0.50
Fluorene	<0.5
Naphthalene	<5.00
Phenanthrene	<2.00
Pyrene	<1.00
Other	Permit Required Minimum Level for Analysis, ug/L
Available Cyanide	< 2.00
Total Mercury (Hg)	< 2.00
Methyl Tertiary-Butyl Ether (MTBE)	< 5.00

Login Sample Receipt Checklist

Client: Exxon Global Remed. Grp

Job Number: 490-2442-1

Login Number: 2442

List Source: TestAmerica Nashville

List Number: 1

Creator: Ford, Easton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	